

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/073,976	02/14/2002	Masahiro Morisada	00862.022519	4966	
5514	7590 04/08/2004		EXAM	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			FULLER, ROI	FULLER, RODNEY EVAN	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
NEW TORK	NEW TORK, NT 10112		2851		
		DATE MAILED: 04/08/2004	DATE MAILED: 04/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

.,					
Application No.	Applicant(s)				
10/073,976	MORISADA, MASAHIRO				
Examiner	Art Unit				
Rodney E Fuller	2851				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 23 December 2003.					
This action is FINAL . 2b) This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
Claim(s) 16-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 16-25 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
er. are: a)⊠ accepted or b)⊡ objector drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj kaminer. Note the attached Office	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Paper No(s)/Mail Da 5) Notice of Informal P					
	Examiner Rodney E Fuller Dears on the cover sheet with the cover sheet and sheet sh				

Application/Control Number: 10/073,976 Page 2

Art Unit: 2851

DETAILED ACTION

Remarks

1. In response to applicant's Amendment, dated December 23, 2003, the examiner acknowledges corrections of the objections to the Drawings and Specification set forth in the Office Action mailed October 2, 2003. The examiner acknowledges the cancellation of claims 1-15 and the addition of claims 16-25. Claims 16-25 are pending.

Drawings

2. New corrected drawings are required in this application because the requested changes to Figures 7 and 8 where hand-written. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 16-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwai, et al. (US 6,128,552).

Regarding claim 16, Iwai discloses "a table (Fib 16, ref.# 101); a pneumatic spring (Fig. 11, ref.#s 104a-104d) for applying a force to said table; an electromagnetic actuator (column 15, lines 17) for applying a force to said table; and a first generator (column 3, line 49-51) which generates a driving signal for said electromagnetic actuator based on at least one of a target position (column 3, line 50) and a target speed with respect to a movable object on said table."

Regarding claim 17, Iwai discloses "a second generator which generates a signal for changing a pressure in said pneumatic spring based on at least one of the target position and the target speed." (column 15, lines 44-48)

Regarding claim 18, Iwai discloses "wherein said first generator includes a filter which filters a signal with respect to at least one of the target position and the target speed." (column 2, lines 15-26)

Regarding claim 19, Iwai discloses "wherein a cutoff frequency of said filter has a value within a controllable frequency range of said pneumatic spring." (column 2, lines 15-26; Fig. 14, ref.# 11)

Regarding claim 20, Iwai discloses "wherein said second generator includes a filter which filters a signal with respect to at least one of the target position and the target speed." (column 2, lines 15-26)

Regarding claim 21, Iwai discloses "wherein a cutoff frequency of said filter has a value within a controllable frequency range of said pneumatic spring." (column 2, lines 29-31).

Regarding claim 22, Iwai discloses "an exposure apparatus for exposing a substrate to a pattern, said apparatus comprising an anti-vibration apparatus defined in claim 16." (column 4, line 66 – column 5, line 5)

Application/Control Number: 10/073,976 Page 4

Art Unit: 2851

Regarding claim 23, Iwai discloses "an apparatus according to claim 22, further comprising a movable stage as the movable object." (column 5, line 2)

The method steps of claims 24 and 25 are met by the operation of Iwai as applied to claims 16-23.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney E Fuller whose telephone number is 571-272-2118. The examiner can normally be reached on 8:00am - 4:30pm.

Application/Control Number: 10/073,976 Page 5

Art Unit: 2851

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 571-272-2112. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney E Fuller
Primary Examiner
Art Unit 2851

March 29, 2004